

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001860910006-0

Voronezh A.V.

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80752

S/120/60/000/006/028/045  
E032/E314

11.3100

AUTHORS: Voronej', A.V. and Strelkov, P.G.

TITLE: Method for Measuring the Specific Heat of  
Liquefied Gases Above Their Boiling Point

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, No. 6,  
pp. 111 - 112

TEXT: In a previous paper the second of the present authors et al (Ref. 1) described a method for measuring the specific heat of liquefied gases at pressures not exceeding 1-2 atm. The present paper describes a development of this method in which the range of possible pressures is extended to some tens of atm. The principal difficulty was to produce a calorimeter which is sufficiently light for its specific heat to be small compared with the specific heat of the specimen and at the same time sufficiently rigid to withstand the high pressure. The design shown in Fig. 1 was found to be most satisfactory. The calorimeter was in the form of two cylindrical tubes 1 and 2 made of stainless steel, 0.18 mm thick. One of these tubes is inserted into the other to a depth of 5 mm and is then soldered in. Next, a

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E032/E314

Method for Measuring the Specific Heat of Liquefied Gases  
Above Their Boiling Point

wide (20 mm) stainless-steel ring 3 is placed over the joint and is also soldered in. A thin-walled steel tube 4 (5 mm in diameter) passes through the middle of the calorimeter. A platinum thermometer 6 is inserted into this tube. The internal volume of this calorimeter was about 105 cm<sup>3</sup>. With soft-soldered joints the calorimeter withstood pressures in excess of 70 atm without appreciable deformation. The weight of the calorimeter is about 55 g and its thermal capacity is about 25 joules/C at room temperature. The heater 7 was in the form of a constantan coil, 0.1 mm in diameter threaded through a copper capillary, and insulated from it by the 5Φ-4 (BF-4) material. The mixing of the liquid was achieved by the magnetic mixer 8, consisting of two stainless-steel discs. The thermal insulation and the

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Method for Measuring the Specific Heat of Liquefied Gases  
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method of filling the calorimeter is as described in Refs. 1 and 3. Only the high-pressure valve had to be modified and this is described in Ref. 4. The apparatus was checked by measuring the specific heat of nitrogen between about 95 and 120 K. The results obtained were found to be in agreement with published data. The specific heat could be determined to within 1%.

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E032/E314

Method for Measuring the Specific Heat of Liquefied Gases  
Above Their Boiling Point

Fig. 1

Card 4/5

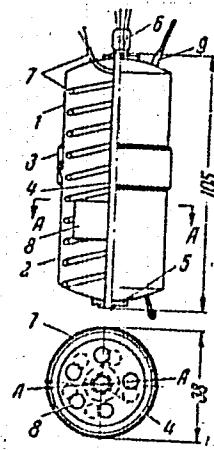


Fig. 1

86752

S/120/60/000/006/028/045  
E032/E314

Method for Measuring the Specific Heat of Liquefied Gases  
Above Their Boiling Point

There are 2 figures and 8 references: 5 Soviet, 2 English  
and 1 Swedish.

ASSOCIATION: Nauchno-issledovatel'skiy institut fiziko-  
tekhnicheskikh i radiotekhnicheskikh izmereniy  
(Scientific Research Institut of Physico-  
technical and Radiotechnical Measurements)

SUBMITTED: October 28, 1959

Card 5/5

ASTROV, D.N.; VORONEL', A.V.

Regulating bellows-sealed valve for operation under pressures  
up to 150 atmospheres. Prib. i tekhn. eksp. no.3:149 My-Je '60.  
(MIRA 14:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut fiziko-tekh-  
nicheskikh i radiotekhnicheskikh izmereniy.  
(Valves)

VORONEL', A.V.

Shape of the critical isotherm near the critical point. Zhur.  
eksp. i teor. fiz. 40 no.5:1516-1518 My '61. (MIRA 14:7)

1. Institut fiziko-tehnicheskikh i radio-tehnicheskikh  
izmereniy.  
(Curves, Isothermic) (Thermodynamics)

VORONEL', A.V.; SHCHEKOTIKHINA, V.V.

Miniature platinum resistance thermometer. Prib. i tekhn. eksp. 8  
no.2:181-182 Mr~Ap '63. (MIRA 16:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut fiziko-tehnicheskikh  
i rediotekhnicheskikh izmereniy.  
(Thermometers)

L 05773-67 EWP(m)/EWP(j)/EWP(t)/EPI IJP(e) JD/WW/JW/km

ACC NR: AP6031431 SOURCE CODE: UR/0056/66/051/002/0394/0400

AUTHOR: Voronel', A. V.; Chashkin, Yu. R.

60  
B

ORG: Institute of Physicotechnical and Radio Engineering Measurements (Institut fiziko-tehnicheskikh and radiotekhnicheskikh izmereniy)

TITLE: Specific heat of  $C_v$  of argon as a function of density near the critical point

SOURCE: Zh eksper i teor fiz, v. 51, no. 2, 1966, 394-400

TOPIC TAGS: argon, critical point, specific density, specific heat

ABSTRACT: The singularity of  $C_v$  near the critical point was investigated by measuring the specific heat at twelve densities above and below the critical point. The singularity of  $C_v$  is approximately symmetrical with respect to density. The change in the specific heat  $\Delta C_v$  as a function of density is slightly anomalous near the critical point. The authors thank V. G. Snigireva, L. A. Snigerev, and G. N. Chernov for their help in the laborious measurement and processing the results, and M. Sh. Giterman for repeated discussions. Orig. art. has: 1 figure, 4 formulas, and 5 tables. [Based on authors' abstract]

SUB CODE: 20/ SUBM DATE: 26Feb66/ ORIG REF: 010/ OTH REF: 006/

Card 1/1 eagle

VORONEL', L.M., inzh.

Creation of scientific centers is a factor assuring technological progress. Elektrotehnika 35 no.1:20-21 Ja '64.  
(MIRA 17:2)

6CCLAL!, b

AUTHOR: Voronel', V., Sverdlovsk 107-9-37/53

TITLE: A Stable Heterodyne (Stabil'nyy geterodin)

PERIODICAL: Radio, 1957, # 9, p 48 (USSR)

ABSTRACT: The article deals with a modified circuit-diagram of a Franklin oscillator. The modification consists in adding a special capacitor. Tests performed with an oscillator assembled according to this diagram showed that, in case of an unstabilized power supply, the instability of the frequency, existing within 30 minutes, is about  $3 \cdot 10^{-6}$ . For a variation of the anode voltage by 50 % or of the anode and the heating voltage by 20 %, the instability is about  $1 \cdot 10^{-5}$ . Such oscillators show a good performance at frequencies below 1 megacycle.

The article contains 1 figure.

AVAILABLE: Library of Congress

Card 1/1

ACCESSION NR: AP4029462

S/0108/64/019/004/0057/0062

AUTHOR: Voronel', V. L.

TITLE: Transistor as a frequency converter

SOURCE: Radiotekhnika, v. 19, no. 4, 1964, 57-62

TOPIC TAGS: transistor, P-15 transistor, conversion factor, frequency converter, transistorized frequency converter

ABSTRACT: An attempt is made to theoretically prove that the complex nature of the elements of a quadrupole matrix is a corollary of quadrupole inertia. The results are used to analyze a transistor operating as a frequency converter, with allowance made for transistor inertia. Formulas are given which establish the dependence of the conversion factor on signal and heterodyne frequencies. Experimental verification was carried out with P-15 transistors within the 300 kc - 1.5 Mc band. It is found that (1) to obtain a uniform

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ACCESSION NR: AP4029462

conversion factor within a frequency band, a higher rated frequency transistor should be used than that employed for amplification within the same band; (2) a joint heterodyne-converter scheme is undesirable, since the heterodyne-frequency load connected in the emitter-collector circuit will impair the conversion factor (such a scheme is permissible if the transistor gain is ample and the coupling to the heterodyne circuit can be made weak). Orig. art. has: 3 figures and 21 formulas.

ASSOCIATION: none

SUBMITTED: 22Oct63

DATE ACQ: 30Apr64

ENCL: 00

SUB CODE: EC

NO REF SOV: 002

OTHER: 002

Card 2/2

VORONEL', V.M.

Use of the vacuum apparatus of the All-Union Scientific  
Research Institute of the Canning Industry for cooking.  
Kons. i ov. prom. 15 no. 12:11-12 D '60. (MIRA 14:1)

1. Krasnodarskiy nauchno-issledovatel'skiy institut pishchevoy  
promyshlennosti.

(Jam)

VORONEL', V.M., glavnnyy inzhener; NASAKINA, T.N., redakteur; FOMIN, A.P.;  
redakteur; ROSLOV, G.I., tekhnicheskiy redakteur

[Canning fruits and vegetables at home] Demashches konservirovanie  
pledev i ovoshchey. Pod red. T.N. Nasakina. Moskva, Gos. iud-vo torgo-  
vogo lit-ry, 1955. 61 pp. (Gos. iud-vo torgovo lit-ry, 1955. 61 p.)  
(MLBA 9:5) (MLBA 2:6)

1. Krasnedarskiy trakt Resglavkonserva (for Voronel')  
(Canning and preserving)

VORONEL', V.M.

Layout for the processing of tomato products. Kons.1 cv.prom.  
12 no.9:7-10 S '57. (MIRA 10:10)

1. Krasnodarskiy filial Vsesoyuznogo nauchno-issledovatel'skogo  
instituta konservnoy i ovoshchesushil'noy promyshlennosti.  
(Tomatoes--Preservation)

VORONENKO, A.I.

Automatic remote control of the periodic exploitation of marginal wells using teledynamometry channels. Neft. - gaz. prom. no. 48  
44-45 C-D '64

(MIRA 18-2)

VORONENKO, V.P.

Calculation of tunnel diode mixers at large heterodyne amplitudes.  
Radiotekh. i elektron. 11 no.1:165-166 Ja '66.

(MIRA 19:1)

1. Submitted March 18, 1965.

L 39934-66 EWT(1)/EFC(k)-2/T LJP(c)  
ACC NR: AP6014259 SOURCE CODE: UR/0109/66/011/005/0963/0964

AUTHOR: Voronenko, V. P.

CRG: none

TITLE: Criterion of stability of tunnel-diode circuits ✓

SOURCE: Radiotekhnika i elektronika, v. 11, no. 5, 1966, 963-964

TOPIC TAGS: tunnel diode, stability ~~criterion~~

ABSTRACT: As the tunnel-diode-circuit stability calculations have been difficult and cumbersome (e.g., M. E. Hines, BSTJ, 1960, 3, 477), a new criterion is suggested which is based on D-partition techniques. The complex plane of the circuit admittance (including the tunnel diode)  $Y = G + jB$  is subdivided into regions whose boundaries are represented by the map of the imaginary plane  $p$  on the plane  $Y$  (a hodograph). By using a hatchure and by isolating the region  $D_0$ , to which minimum  $N_+$  corresponds, the circuit stability is determined. A practical tunnel-diode amplifier circuit is examined as an example illustrating application of the new method. Orig. art. has: 2 figures and 1 formula.

SUB CODE: 09 / SUBM DATE: 24Aug65 / ORIG REF: 002 / OTH REF: 002

Cord 1/1 b/s

UDC: 621.372.061.3:621.382.23.011.222.4

VORONENKOV, Yu.P.

Methods of mining the Nikolayevka deposit. Gor.sbir.  
no.8:15-17 Ag '60. (MIRA 13:8)

1. Zamestitel' predsedatelya Vostochno-Kazakhstanskogo  
sovnarkhoza.  
(Kazakhstan--Copper mines and mining)

VORONCOV, A.

"Experiences Obtained in Calf Breeding by Use of Two Kinds of Feeding Stuffs"  
Tr. from the Russian. p. 941, (ZA SOCIALISTICKÉ ZEMĚDĚLSTVÍ, Vol. 2, no. 2,  
August 1952, Praha, Czechoslovakia).

SO: Monthly List of East European Accessions, LC, Vol. 2, No. 11, Nov. 1953, Uncl.

BC

B-7-8

Electrolytic oxidation of "white paste" (iron ferrocyanide), in production of Prussian-blue. N. F. Belanovskii and M. K. Voznogov (Prin. Org. Chlm., 1970, 6, 313-317). A more intensely blue product is obtained by electrolytic oxidation of  $[\text{Fe}_2\text{Fe}(\text{CN})_6]$  (c.d. as cathode and anode 4 amp./sq. dm., in 0.06%  $\text{H}_2\text{WO}_4$  electrolyte, at  $10^{\circ}$ ) than by chemical oxidation.

Open

Materials Index

## ATA-SEA - METALLURGICAL LITERATURE CLASSIFICATION

SEARCH STRATEGY

SEARCHED - J

SEARCHED MAY ONLY ONE

SEARCHED - J

SEARCHED

SEARCHED

SEARCHED

SEARCHED - J

PUBLICATIONS

SEARCHED

SEARCHED

SEARCHED - J

SEARCHED

SEARCHED

VORONEK, P.V.

Mathematical Reviews  
Vol. 15 No. 2  
Feb. 1954  
Astronomy

Sokolov, Yu. D. On a case of integrability of the equations of symmetric motion of a system of three material points. Ukrains. Mat. Žurnal 3, 347-380 (1951). (Russian)

This paper is a continuation of an earlier one by the same author [same Žurnal 2, no. 3, 7-44 (1950); these Rev. 13, 996]. Consider a system of three particles  $P_i$  of masses  $m_i$  ( $i=0, 1, 2$ ), which attract or repel each other, the interaction between  $P_i$  and  $P_j$  ( $i \neq j$ ) having magnitude  $m_i m_j |f(r_{ij})|$  and representing an attraction or repulsion according as  $f$  is negative or positive. Further assume that  $f(r) = Ar + B/r^2$ , where  $A$  and  $B \neq 0$  are arbitrary numbers. Let  $m_1 = m_2$  and let the initial conditions at  $t=0$  be chosen in such a way that the triangle  $P_0 P_1 P_2$  remains isosceles during the whole motion. It was shown that the only possible types of motion of this triangle are: (i) rotation about the axis parallel to its base through the center of inertia of the system, (ii) rotation about its axis of symmetry (altitude), and (iii) planar motion in which  $P_0$  moves along a fixed straight line while the particles  $P_1$  and  $P_2$  describe trajectories which are symmetric with respect to this line. A complete discussion in terms of elliptic functions of these possible cases of the relative motion is given. Some of the results obtained generalize certain earlier results of

P. V. Voronec [Universitetskiy vestnik, Kiev 47, nos. 1, 2, Čast' II, 180+iii pp. (1907)]. E. Leimanis.

5  
Dynam.

Celestial

mechanics

L 5147-66 EWT(1)/ENT(m)/ENP(t)/ENP(b)/STC(m) IJP(c)/JPL JD/W/JW/PM  
ACCESSION NR: AP5021103 UR/0056/65/049/002/0429/0432

AUTHORS: Voronel', A. V.; Garber, S. R.; Simkins, A. F.;  
Charkina, I. A.

TITLE: Specific heat of gadolinium near the Curie point

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49,  
no. 2, 1965, 429-432

TOPIC TAGS: gadolinium, Curie point, specific heat, second order  
phase transition

ABSTRACT: To check on the behavior of the logarithmic singularity of  
the specific heat near a normal second order phase transition point,  
for example, a ferromagnetic transition point, the authors measured  
the specific heat of two gadolinium samples near the Curie point  
(290K). The two samples ( $Gd_{12}$  and  $Gd_{27}$ ) had resistivity ratios  
 $\rho(300K)/\rho(4.2K)$  of 12 and 27 respectively, and their weights were ~70  
and ~1.2 g respectively. The measurements on  $Gd_{12}$  were made with

Card 1/4

L 5147-66

ACCESSION NR: AP5021103

18

standard calorimetric apparatus, and that of  $Gd^{27}$  with a special calorimeter shown in Fig. 1 of the Enclosure. Plots are given of the specific heat against the temperature and against the relative temperature difference. The effect of impurities on the singularity of the thermodynamic potential at a second order transition point is discussed and it is shown that the presence of such a singularity is masked by the imperfection of the samples. The incorrectness of the determination of the Curie point from the maxima of nonmagnetic properties is pointed out, and the discrepancies between the published values of the Curie point, determined by using various properties, are accounted for. We thank K. P. Belov, A. V. Fed'ko, and R. Z. Levitin for supplying the  $Gd^{27}$  gadolinium sample and for interest in the work.<sup>\*\*</sup> We are grateful to <sup>27</sup>G. V. Abramov and R. S. Aristov for help with the measurements and V. A. Konoplev for help with constructing the thermometer-heater used for the gadolinium sample. Orig. art. has: 3 figures

Card 2/4

L 5147-66

ACCESSION NR: AP5021103

ASSOCIATION: Institut fiziko-tekhnicheskikh i radiotekhnicheskikh  
izmereniy (Institute of Physicotechnical and Radiotechnical  
Measurements) *44/55*

SUBMITTED: 10Mar65

ENCL: 01

SUB CODE: SS, TD

NR REF SOV: 005

OTHER: 002

Card 3/4

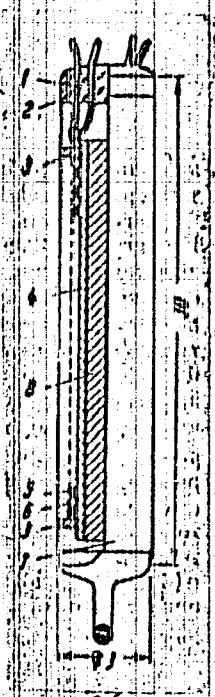
L 5147-66

ACC NR: AF5021103

Enclosure: 01

Fig. 1. Diagram of calorimeter for Gd<sub>27</sub> sample

- Legend:
- 1. Insulating beads
  - 2. Platinum rim
  - 3. Two paper washers
  - 4. Cigarette paper
  - 5. Copper wire
  - 6. Thermometer-heater
  - 7. Copper casing
  - 8. Sample (glued to cigarette paper)



Card 4/4 *W-2*

L 5145-66 EWT(1)/EWT(m)/EPF(c)/EPF(j)/ETC(m) RPL JW/J/P  
ACCESSION NR: AP5021104 UR/0056/55/019/002/0433/0437  
AUTHORS: Chashkin, Yu. R.; Gorbunova, V. G.; Vironal, A. V.  
TITLE: Influence of impurities on the singularity of the thermodynamic potential at the liquid-vapor critical point  
SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki v. 49, no. 2, 1965, 433-437  
TOPIC TAGS: air, nitrogen, specific heat, Curie point, critical point, thermodynamic characteristic, vaporization  
ABSTRACT: The specific heat of air and nitrogen containing 1.2 percent impurities were measured near the critical point and the results compared with those obtained earlier for pure substances (ZhETF v. 43, 728, 1962 and v. 45, 828, 1963). The measurement method was described elsewhere (PTE no. 6, 111, 1960). Plots of the specific heat against the temperature and against the relative temperature difference are presented and a table of the specific heat of air for different temperatures is given. The results show that the lower the

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L 5146-66

ACCESSION NR: AP502110<sup>4</sup>

impurity content in a substance, the closer the rise of the specific heat is to the logarithmic rise observed in a pure substance. The impurities cause the logarithmic singularity of the specific heat  $C_v$  near the critical point to become deformed, with the deformed  $C_v(T)$  curve resembling the  $C_p(T)$  for solids near the Curie point. It is suggested that the formula obtained earlier for  $C_v$  (ZhETF v. 46, 673, 1964) be modified to include a term proportional to the total number of the impurities. Orig. art. has: 2 figures and 2 tables.

ASSOCIATION: Institut fiziko-tehnicheskikh i radiotekhnicheskikh izmereniy (Institute of Physicotechnical and Radiotechnical Measurements)<sup>44,55</sup>

SUBMITTED: 10Mar65

ENCL: 00

SUB CODE:

TD

NR REF SOV: 009

OTHER: 002

Card 2/2 *ML*

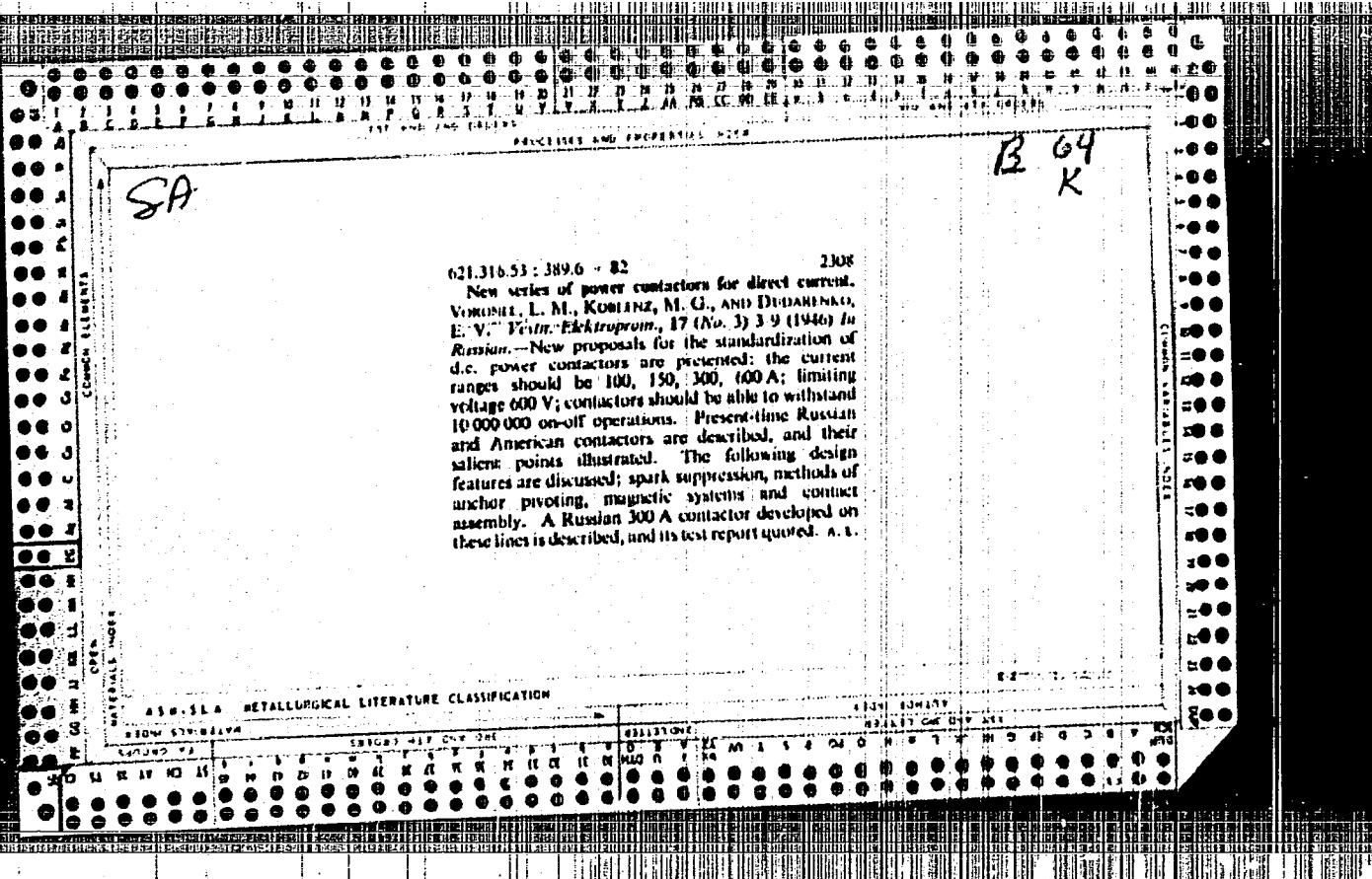
VORONEL', A.V.

Connection between densities of liquids at ternary and critical points.  
Zhur.fiz.khim. 29 no.2:392-395 F '55. (MIRA 8:7)

1. Khar'kovskiy gosudarstvennyy universitet (Liquids)

Production of automatic apparatus for electric transmission  
Voronezh, L. M. AND Kosunz, M. G.  
Vestn. Elektrosvyaz' (No. 12) 1-3 (1946) In Russian.—  
Preparations are made for reconditioning throughout  
U.S.S.R. the design and production of components such  
as contacts, "thermostats" and the main types of  
relays required in electric power supply. A. L.

AB 64  
AC



VORONEL', L. M.

PA 23T19

USSR/Electricity  
Remote Control Systems  
Contacts, Relay

Mar 1947

"Universal Button Operated Block Contact for Remote Control Apparatus," L. M. Voronel', M. G. Koblenta,  
Engrs, Cheboksarskiy Apparatus Factory, 3 pp

"Vest Elektro Prom" No 3

These block contacts have two gaps, insuring better contact. The authors state that there are three main classes of block contacts and give diagrams of each. Also several diagrams of the switches. Gives a short description of several types of Russian block contacts.

23T19

VORONEL, L. M.; KOBLENTS, M. G.

Electric Circuit Breakers

New Switches for the solenoide gears of circuit breakers. Elek. sta. 23 no. 2, 1952.  
Inzh.

Monthly List of Russian Accessions, Library of Congress, April 1952. UNCLASSIFIED.

VORONEL', L.M., inshener; NOBLENTS, M.G., inshener.

Universal push-button block-contact for automatic control apparatus.  
Vest.elektroprom, 18 no.3:22-24 '47. (KUBA 6:12)

1. Cheboksarskiy apparatnyy zavod,  
(Electric contactors)

Electric Circuit Breakers

New Switches for the solenoide gears of circuit breakers. Elek.sta. 23 no. 2, 1952.  
Inzh.

SO: Monthly List of Russian Accessions, Library of Congress, April 1952 359, Uncl.

VORONEL', V.L.

A transistor frequency converter. Radiotekhnika 19 no. 4:57-62  
Ap '64. (MIRA 17:5)

AUTHOR: Voronenko, A., Engineer

SOV/B4-58-8-41/59

TITLE: When Will There Be Results? (Kogda zhe budut rezul'taty?)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 8, p 30 (USSR)

ABSTRACT: In this letter to the editor the author refers to the failure of the State Scientific Research Institute (Gos NII) of the GVF to produce after years of experimentation, a workable loader of dry and liquid chemicals for agricultural aircraft. Another design by engineers Konovalov and Lagutochkin, although successful, has remained a local effort, serial manufacture being thus far confined to a single repair establishment under Ovsyannikov. A similar situation has developed with sprayers, on which the Institute has been working without success since 1954. The author concludes with a demand to begin serious effort to equip agricultural aircraft with mechanized loaders.

Card 1/1

VORONENKO, A.

Leader for the airplane AN-2. Grazhd. av. 15 no.11:35 N '58.

(Aeronautics, Commercial---Freight) (MIRA 11:12)

SOV/84-58-11-49/58

AUTHOR: Voronenko, A.

TITLE: An-2 Plane Fueling Unit (Zagruzchik samoleta An-2)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 11, p 35 (USSR)

ABSTRACT: The author tells of an experimental series production of a new fueling unit, designed by S. Tugarinov for the An-2 plane. Its weight is 200 kg, the rate 600 to 700 kg of chemicals per minute. Other descriptive data and a photograph of the unit are given.

Card 1/1

PANFIL', L.S., inzh.; VORONENKO, A.A., inzh. (g.Ufa)

Improved method for melting the ice crust on the contact  
net. Elek. i tepl.tiaga 3 no.10:15-16 O '59.  
(MIRA 13:2)

(Electric railroads--Wires and wiring)

VORONENKO, A. A.

Repairing combines at specialized shops. Mekh. #11. hosp. 14  
no.2:11-13 F '63. (MIRA 16:4)

1. Glavnnyy inzh. Pyatikhatskogo otdeleniya "SIL'gosptekhniki",  
Dnepropetrovskoy oblasti.

(Ukraine--Combines(Agricultural machinery)--  
Maintenance and repair)

SOSNOV, K.Ye.; VORONENKO, A.I.

Telemetering the production of strippers and heavily flooded wells. Nefteprom. delo<sup>4</sup> no.4:23-25 '64. (MIRA 17:6)

1. Neftepromyslovoye upravleniye "Leninneft".

VORONENKO, Boris Grigor'yevich; TREYNIS, A.M., red.; KHIVRICH, Ye.D.,  
red. izd-va; LOBANKOVA, R.Ye., tekhn. red.

[Experimental tree-tapping in the Soviet Union] Opytnaya pod-  
sochka v Sovetskem Soiuze. Moskva, Goslesbumizdat, 1961. 183 p.  
(MIRA 15:1)

(Turpentining)

VORONENKO B.G.

V Pomoshch' Masteru Podsochki (Aid To The Master of Gashing, by) B. G. Voronenko,  
V. O. Vershuk, Nikonov, A. A., Ed. Moskva, Goslesbumizdat, 1952,  
191 P. Illus., Diagrs., Tables.

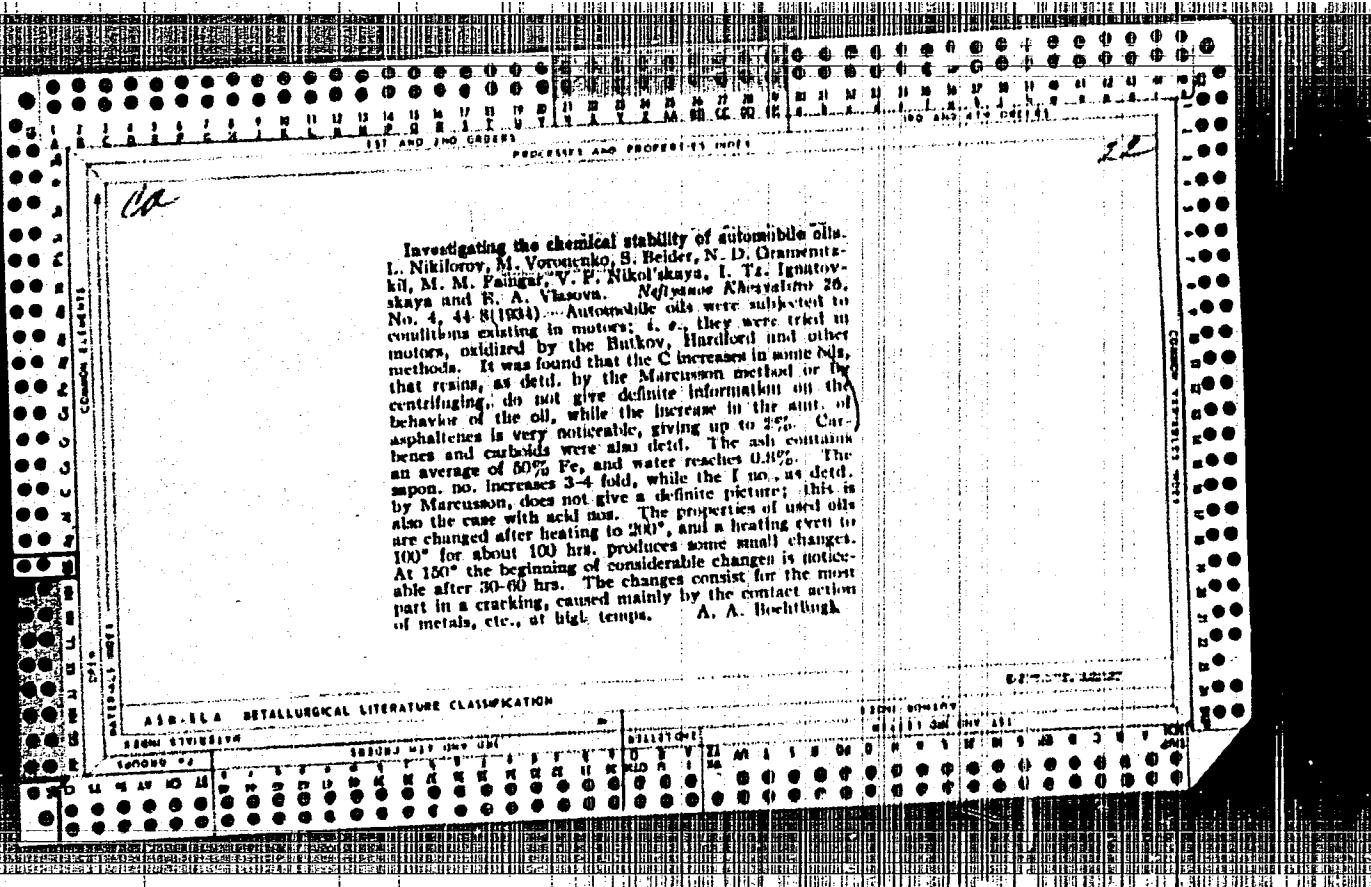
SO: N/5  
729.4  
.N6

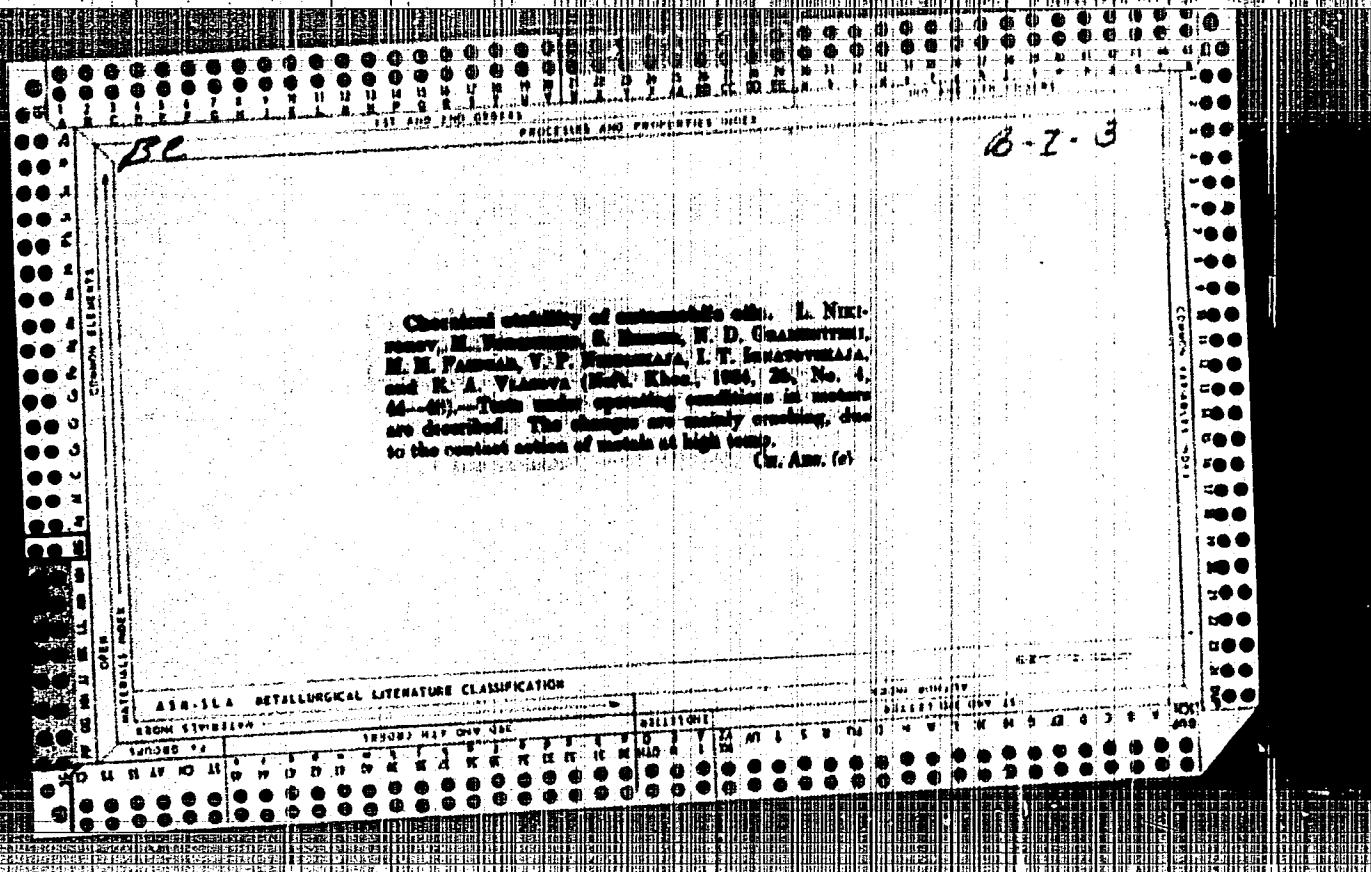
DUBOVYY, Ye. D., prof.; OKS, A. A., prof; BUCHINSKAYA, M. P.; VORONENKO, T. V.;  
DEMIDAS, V. V.; FASTOVSKAYA, P. M. (Odessa)

Treatment of thyrotoxicosis with radioactive iodine. Prch. endok.  
(MIRA 14:12)  
i gorm. no. 6:50-56 '61.

1. Iz kafedry rentgenologii i radiologii (zav. - prof. Ye. D. Dubovyy)  
i kafedry fakul'tetskoy u gospital'noy terapii (zav. - prof. A. A. Oks)  
Odesskogo meditsinskogo instituta (dir. - zasluzhennyy deyatel' nauki  
prof. I. Ya. Deyneka)

(IODINE-ISOTOPES)  
(THYROID GLAND-DISEASES)





PORT, B.S.; VORONENKO, L.M.; Prinimali uchastiye: IVANOV, L.I.; MAYOROVA, A.V.; PETROV, B.M.

Some problems of the improvement of the design and manufacture of press molds for tread vulcanization. Kauch. i ret. 23 no.10: 44-46 O '64. (MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy i konstruktorskiy institut po oborudovaniyu dlya shinnoy promyshlennosti, g. Yaroslavl'.

(N)

L 11927-66

EWT(d)/EWT(m)/FA/FA(b)/T-2/EWP(h)

ACC NR: AP6001831

SOURCE CODE: UR/0375/65/000/01 0/0043/0046

55

AUTHOR: Voronenko, O.A. (Engineer, Lieutenant colonel); Toporikov, V.A. (Engineer)

ORG: none

TITLE: The extension of flight conditions for shipborne helicopters

SOURCE: Morskoy sbornik, no. 10, 1965, 43-46

TOPIC TAGS: naval aircraft, helicopter, aircraft performance

ABSTRACT: To avoid various types of damages, the take-off and landing of helicopters and the start and stop of the rotor should not be carried out in the presence of a head wind exceeding 14 m/sec and 18 m/sec for the Ka-15 and MI-4 helicopters, respectively. The author 1) discusses briefly helicopter flight conditions as related to navy ships; 2) describes ship operations (relative to wind direction) which help the landing and take-off of helicopters; 3) outlines the theory and gives examples of the practical uses of a special plotting board which helps the helicopter pilot in reaching the optimum decisions; and 4) presents a table (Table 1) giving the relationship between the permissible helicopter weight as a function of the air speed in the landing area. Orig. art., hal.: 3 figures and 1 table.

Card 1/2

L 11927-66

ACC NR: AP6001831

TABLE 1. Permissible weight of helicopters during take-off from ship; as a function of the velocity of the resulting air current.

| Velocity of the resulting air current above the landing area, m/sec | Take-off helicopter weight, kg |       |
|---|--------------------------------|-------|
|   | Mi-4                           | Ka-15 |
| 0   | 6550                           | 1320  |
| 5   | 6860                           | 1440  |
| 10  | 7550                           | 1475  |
| 15  | 7600                           | 1475  |

SUB CODE: 01 / SUBM DATE: none

OC  
2/2  
Card

DEMIDAS, V.V. ; VORONENKO, T.Y.

300 radionotherapy following surgical treatment of thyrotoxicosis.  
(MIR 18:9)  
Med. rad. 10 no.7:41-46 JI '65.

1. Kafedra rentgenologii i radiologii (zav. - prof. Ye.D.Bibovyy)  
Odesskogo meditsinskogo instituta imeni N.I.Pirogova.

VORONENKOV, N.; ILLARIONOVA, T., agronom; GRIBANOV, F., kand. sel'skokhoz.  
nauk

Let us put the land in order. Zemledelie 27 no.10:62-66  
(MIRA 18:10)  
0 '65.

1. Predsedatel' kolchoza imeni Kalinina Dubrovskogo rayona,  
Bryanskoy oblasti.

136500-65

EBC(b) -2/EXC(1)-2/EX(1)/EX(1)/EX(1)/1

ACCESSION NR: AP5007090

8/0100/65/010/0/3/0/4/0-56

IJP(c)

AUTHOR: Voronenko, V. P., Il'yasev, A. N.

TITLE: Investigation of the special features of a tunnel-diode amplifier

SOURCE: Radiotekhnika i elektronika, v. 10, no. 1, 1965, p. 9-14

TOPIC TAGS: semiconductor amplifier; tunnel diode amplifier; electronic amplifier

ABSTRACT: As a description of the tunnel-diode current-voltage characteristic by a third-degree polynomial used elsewhere places too many limitations on the bias voltage and the signal amplitude, in the present article the current-voltage characteristic is described by a fifth-degree polynomial. This permits expressing (formulas 11, 12) the amplifier saturation power in a wide range of bias up to the voltages where  $\partial I / \partial U < 0$ . The effect of frequency on the saturation power is investigated, and formulas for the saturation power under both straight-through

Card 1/2

L 36500-65

ACCESSION NR: A175007090

and reflection conditions are developed. The effect of finite band widths is neglected because their voltage across the p-n junction is small compared with the fundamental voltage. The influence of the boundary conditions associated with the finite band widths is also considered. The physical parameters of the tunnel diode permitted establishing a connection between the coefficients of the approximating polynomial and the impurity concentration in Ge and, thus, evaluating the saturation power which is provided for the diode. The physical properties of the semiconductor. Also, the noise factor and the passband of a tunnel-diode amplifier depending on the doping degree are found. Orig. art. has: 6 figures and 23 formulas.

ASSOCIATION: none

SUBMITTED: 17Jan64

INCL: 00

SUBJ: COMTE, ETC

NO REF SOV: 004

OTHER: 000

Card 2/2

|  |  |                 |
|--|--|-----------------|
| L 2532-66<br>ACCESSION NR: AP5022441   | UR/0109/65/01C/009/1722/1722<br>621.375..1621.362.23:539.2.01? | 33<br>B         |
| AUTHOR: Voronenko, V. P.   |  |                 |
| TITLE: Stability of tunnel diode amplifiers  |  |                 |
| SOURCE: Radiotekhnika i elektronika, v. 10, no. 9, 1965, 1722  |  |                 |
| TOPIC TAGS: amplifier, tunnel diode, transistorized amplifier  |  |                 |
| ABSTRACT: As sudden changes in the load impedance of a tunnel-diode amplifier may cause its instability, connecting the load via a special series-parallel resonant filter is suggested. The filter bandwidth is selected 2-4 times wider than that of the amplifier; within the filter bandwidth, the load impedance is expected to be constant. Out of this band, the series part of the filter would practically turn off the load, while the parallel part would connect a resistor in lieu of the load. Thus, a constant load impedance is ensured in the entire band, from zero up to the highest generation frequency of the diode. Orig. art. has: 3 figures and 2 formulas. | [03]   |                 |
| ASSOCIATION: none  |  |                 |
| SUBMITTED: 29Dec64   | ENCL: 00   | SUB CODE: EG    |
| NO REF Sov: 000  | OTHER: 000   | ADD PRESS: 4408 |
| Card 1/1<br><i>beck</i>  |  |                 |

ACC NR: AP7004917

SOURCE CODE: UR/0109/66/011/012/2269/2270

AUTHOR: Voronenko, V. P.

ORG: none

TITLE: Fundamental characteristics and some special features of autodyne frequency converters using tunnel diodes

SOURCE: Radiotekhnika i elektronika, v. 11, no. 12, 1966, 2269-2270

TOPIC TAGS: frequency converter, tunnel diode, SHF

ABSTRACT: Attention is drawn to the possibility of operating a tunnel diode (TD) as an autodyne SHF converter. If the critical (maximum) TD frequency is much higher than its signal frequency,  $f_c \gg f_s$ , the TD can generate stable oscillations with a relatively high amplitude: up to 230 mv and 270 mv at  $v_p=45$  mv and 90 mv, respectively.

At higher signal frequencies, the parameters of autodyne converters deteriorate quicker than those of external-heterodyne converters. The noise figure of an autodyne converter that uses an optimal circuit does not vary much with  $f_s/f_c < 0.3$  within a wide range of bias voltages. The parameters of a simplest-circuit converter (a circuit, whose band includes both  $f_s$  and image frequency, is tuned to the heterodyne frequency) are inferior to and deteriorate more rapidly than the parameters of the optimal converter. Backward (reverse-biased) diodes are more suitable for converters with external heterodyne. Orig. art. has: 1 figures. UDC: 621.396.62:621.382

Card 1/1 SUB CODE: 09 / SUBM DATE: 17Mar66/ ORIG REF: 002 / OTH REF: 002

VORONENKOV, M.; RAYEVSKIY, V.

Constructive work of industrial teams. Sov. profsciuny 7 no.14:19-21  
J1 '59. (MERA 12:10)

1.Glavnyy inzhener Leningradskogo zavoda imeni Karla Marksa (for  
(for Voronenkov). 2.Predsedatel' zavkoma Leningradskogo zavoda  
imeni Karla Marksa (for Rayevskiy).  
(Leningrad--Textile machinery)

R 20034-65 RWT(d)/WWT(1)/EMP(m)/WWT(m)/BWT(w)/WTA(d)/WWT(w)/SII(E)/PCS(z)/  
A. 20034-65

AUTHOR: Vorononok, Ye. Ya. (Leningrad)

On the basis of magnetic pressure wave article (Eng. Leningrad)

On the basis of magnetic pressure wave article (Eng. Leningrad)

On the basis of magnetic pressure wave article (Eng. Leningrad)

On the basis of magnetic pressure wave article (Eng. Leningrad)

On the basis of magnetic pressure wave article (Eng. Leningrad)

14309845

1. *WAVE EQUATION*

1.1. *WAVE EQUATION FOR THE SURFACE*

$$W^{diss} = \int_{\Gamma} \frac{\partial U}{\partial n}(x, t) dS + \rho_0 \int_{\Gamma} \frac{\partial \Phi}{\partial n} \cos(\theta, n) dS,$$

where  $U(t)$  is the total function of time and position,  $\Phi$  is the potential of the diffraction wave and the radiation wave,  $\rho_0$  is the liquid density,  $n$  is the unit vector along the direction of the external normal to  $\Gamma$ . The surface boundary  $\Gamma$  is assumed to be smooth.

1.2. *WAVE EQUATION OF THE INTERNAL NORMAL TO  $\delta$*

Introducing dimensionless variables, a complex variable  $z = x + iy$  and

SUBJECT: 000005

EXCL: 01

REF ID: A61001

INPUT REV: 001

OTHER: 001

Comments:



Fig. 1.

dm  
Card 3/3

VORONENKOV, V.S.

Biochemistry of Animals. 84

"Variations in the Calcium and Phosphorus Content in the Fetus and Uterus of Rabbits."

Candidate of Agri.Sci., Kazan' State Vet.Inst., Kazan', 1953. (RZhKhim, No.14, Jul 54)

SO: Summary No.356; 25 Jan 1955

Survey of Scientific And Technical Dissertations Defended at USSR Higher Educational Institutions.

USSR/Human and Animal Physiology - (Normal and Pathological).  
Metabolism. Water-Salt Metabolism.

T

Abs Jour : Ref Zhur Biol., No 4, 1959, 17143

Author : Voronенков, V.S.

Inst : Kazan State Veterinary Institute

Title : The Change of Calcium and Phosphorus Content in Fetuses  
and Uterus of Female Rabbits in Pregnancy.

Orig Pub : Uch. zap. Kazansk. gos. vet. in-ta, 1956, 64, No 1, 67-  
75

Abstract : With the increase of the weight of the fetus in its in-  
trauterine development, its content of dry matter in-  
creases, among it of protein, Ca, P. The uterus (U)  
weight of rabbits in pregnancy (P) increases 4.3 times,  
the length 3.4 times; furthermore the water content in  
U and its elasticity increase. During the first half of

Card 1/2

USSR/Human and Animal Physiology - (Normal and Pathological).  
Metabolism. Water-Salt Metabolism.

Abs Jour : Ref Zhur Biol., No 4, 1959, 17143

P the content of dry matter (protein, ash) decreases in U, and during the second half increases; the amount of Ca and P in U decreases during the second half of pregnancy. In increase of the amount of organic and inorganic substances in U and tissues of the fetus, their content in the bones of the hind extremities of pregnant rabbits decreases. During the process of pregnancy, a decrease of the relative weight of the hide, and an increase of the weight of liver, of female rabbits are observed. -- V.S. Gaytskhoki

Card 2/2

- 8 -

VORONENKOV, V. S.

Dissertation: "Variations in the Calcium and Phosphorus Content in the Fetus and Uterus of Rabbits." Cand Agr Sci, Kazan' State Veterinary Inst, Kazan', 1953. Referativnyy Zhurnal--Khimiya, Moscow, No 14, Jul 54.

SO: SUM No. 356, 25 Jan 1955

I V C E N N K o v , U V .

5(1) PLACE I BYE EXPEDITION SON/2927

Yaroslavl'. Technologically Institute  
Obzory Zapiski, Tom II (Scientific Notes, Vol. 2), 1970, pp. 1-100, 100 pages printed.  
Editorial Staff: A.I. Balakin, Candidate of Historical Sciences; Doctor M.I. Pashkov,  
M.M. Maturov, Candidate of Technical Sciences; Professor M.I. Pashkov,  
Doctor of Technical Sciences;  
Rep. Ed.: Professor Yu.S. Maslakov, Doctor of Chemical Sciences  
Secretary-Scientist: N.P. Ustavchikov, Candidate of Chemical Sciences  
PURPOSE: This book is primarily intended for industrial chemists and technicians interested in the kinetics of chemical reactions and their related physical processes.

CONTENTS: The twenty-two articles of this collection deal mainly with industrial processes for the preparation of organic compounds, problems of heat, physics and general mechanics related to these processes, and with industrial chemical equipment. No personalities are mentioned. References are given after each article.

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MUSAHEKOV, Yu.S. (Yaroslavl'); VORONEMKOV, V.V. (Yaroslavl')

Iuliia Vseyolodovna Lermontova, 1846-1919. Izv. vys. ucheb.  
zav.; neft' i gaz. 7 no.10:88, 92, 112 '64. (MIRA 18:2)

VORONENKOV, V.V.; MUSABEKOV, Yu.S.

Development of the conformational analysis of terpenes. Khim.  
i khim. tekhn. 1:283-301 '62. (MIRA 17:2)

VORONENKOV, V.V. (Yaroslavl')

D.I.Mendeleev's work in the field of terpenes and essential  
oils. Vop.ist.est.i tekhn. no.8:132-134 '59.  
(MIMA 13:5)

(Essences and essential oils)  
(Mendeleev, Dmitrii Ivanovich, 1834-1907)

VORONENKOV, V.V.; MUSABEKOV, Yu.S.

Main stages and trends in the development of terpene chemistry  
in Russia. Trudy Inst.ist.est.i tekhn. 39:195-211 '62.

(MIRA 16:2)

(Terpenes)

VORONENKOV, Yu.P., gornyy inzh.; DOBROVOL'SKIY, V.V., kand.tekhn.nauk  
ANIKEYEV, I.Ya., inzh.

"Hydraulic mining operations" by G.A. Nurok. Reviewed by  
I.U.P. Voronenkov, V.V. Dobrovolskiy, I.IA. Anikayev. Gor.  
zhur. no. 11:78-79 N '60. (MIRA 13:10)

1. Zamestitel' predsedatelya Vostochno-Kazakhstanskogo  
sovnarkhoza (for Voronenkov). 2. Institut gornogo dela AN SSSR  
(for Dobrovolskiy). 3. Institut Proektgidromekhanizatsiya  
Minstroya RSFSR (for Anikayev).

(Hydraulic mining) (Nurok, G.A.)

VORONENKOVA, I.A.

Effect of sham feeding on basal metabolism in dogs. Biul. eksp. biol. i med. 46 no.11:7-11 N '58. (MIRA 12:1)

I. Iz otdela obshchey fiziologii (zav. - prof. A.V. Rikkl') Instituta eksperimental'noy meditsiny (dir. - chlen-korrespondent AMN SSSR D. A. Bir'yukov) AMN SSSR, Leningrad. Predstavlena akademikom K.M. Bykovym.

(BASAL METABOLISM,

eff. of sham feeding in dogs (Rus))

(FOOD,

eff. of sham feeding on basal metab. in dogs (Rus))

VORONENKOVA, L.D.

Commercial fishes of the ancient settlement in the Donets  
Valley. Vop.ikht. 2 no.4:626-639 '62. (MIRA 16:2)

1. Belorusskaya sel'skokhozyaystvennaya akademiya, Gorki,  
Mogilevskoy oblasti.

(Donets Valley--Fishes, Fossil)

VORONENKOVA, L.D.; PROKHOROV, V.G.

History of the ichthyofauna of the lower Don River; based on materials of the Nizhne-Gnilovskoy ancient site of the 1st and 2nd centuries A.D. Zool. zhur. 42 no.1:143-146 '63. (MIRA 16:5)

1. Belorussian Agricultural Academy, Gorki.  
(Don Valley--Fishes, Fossil.)

CATEGORY : Farm Animals.  
ABS. JOUR. : RZhBiol., No. 3, 1959, No. 12114  
AUTHOR : Voronets, A.; Suvorov, Yu.  
INST. :  
TITLE : Our Experiment on Obtaining Wax.  
ORIG. PUB. : Pchelovedatvo, 1958, No 5, 14-15  
ABSTRACT : In a year which was poor in collection of honey the author obtained 3-4 kg of wax from each colony. The conclusion is drawn that the building of honeycombs by bees is not related to the gathering of honey to such an extent as it is usually assumed; if brood is present in nests a large amount of wax may still be obtained even though the collection of honey is poor.

CARD: 1/1

97

VORONETS, A.-M.

A mathematics textbook for adults Moskva, Gos. izd-vo, 1921. 85 p. (Vserossiiskia  
chrezvychainaia komissia po likvidatsii bezgramotnosti)

VORONETS, L.A., arkhitektor

Interior lighting and its perception. Svetotekhnika [Gos.13:  
18-23 N '64.] (MIR 17:12)

1. KiyevENIIEP.

VORONETS, N. S.

Paleontology

First discovery of Chimaeridae eggs in the U.S.S.R. Dokl. AN SSSR 84 no. 3, 1952. Rec.  
17 March 1952

SO: Monthly List of Russian Accessions, Library of Congress, September 1952, Uncl.  
<sup>2</sup>

VORONETS, N.S.; LAPTINSKAYA, Ye.S.

New data on the age of Inoceramus of the retrorsus Eys group.  
Dokl. AN SSSR 96 no.1:145-146 My '54. (MLRA 7:5)

1. Nauchno-issledovatel'skiy institut geologii Arktiki, Leningrad.  
Predstavleno akademikom D.V. Nalivkinym.  
(Lena Valley--Mollusks, Fossil) (Mollusks, Fossil--Lena Valley)

VORONETS, N.S.  
USSR/ Geology

Card 1/1 Pub. 22 - 30/49

Authors : Voronets, N. S., and Laptinskaya, E. S.

Title : New data on the Lower Jurassic era deposits of the Anabarsk region

Periodical : Dok. AN SSER 100/5, 955-956, Feb 11, 1955

Abstract : New geological data are presented regarding the Lower Jurassic era deposits discovered in the Anabarsk region of USSR. Six references: 2 Russian and USSR, 1 German, 1 English and 2 French (1842-1936).

Table.

Institution : .....

Presented by : Academician D. V. Malivkin, November 23, 1954

VORONETS, N.S.

Age of the "Ancella-Horizon" of the northern part of the Lena basin. Dokl.AN SSSR 108 no.4:695-696 Je '56. (MIRA 9:9)

1.Naukno-issledovatel'skiy institut geologii Arktiki. Predstavlenie akademikom D.V. Nalivkinym.  
(Lena Valley--Geology, Stratigraphic)

VORONETS, N.S., KRYMIOL'TS, G.Ya., kand.geol.-mineral.nauk, red.; ABKEVICH,  
P.L., red.izd-va; PEN'KOVA, S.A., tekhn.red.

[Stratigraphy and cephalopods of Jurassic and Lower Cretaceous  
sediments in the Lena-Anabar region] Stratigrafija i gEOFOnogija  
molluski i urskikh i nizhnezemelovykh otlozhenii Lena-Anbarskogo  
raiona. Moskva, Gos. nauchn.-tekhn. izd-vo lit-ry, po geologii i  
okhrane nedr. 1962. 109 p. (Leningrad. Nauchno-issledovatel'skii  
institut geologii Arktiki. Trudy, vol.110). (MIRA 15:11)

(Lena Valley--Cephalopoda, Fossil)  
(Anabar Bay region--Cephalopoda, Fossil)

VORONETS, N.S.

*Eoinoceramus Voronetz, gen.nov. from Jurassic sediments in the northern part of Siberia. Sbor.st. po paleont. i biostrat. no.25:81-86 '61.*

(MRA 15:9)

(Siberia—Mytilacca, Fossil)

VORONETS, N.S.

The oldest upper Jurassic Aucella from the region of the Anabar Bay. Trudy NIIGA 111:131-135 '60. (MIRA 14:7)  
(Anabar Bay region--Lamellibranchiata, Fossil)

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VORONETS, V.M.

Technique for radar study of precipitation. Trudy Vysokogor.  
geofiz. inst. AN SSSR 2:180-186 '61. (MIRA 14:12)  
(Radar meteorology)  
(Precipitation (Meteorology))

VORGNETS, V. S.

PETROV, Nikolay Mitrofanovich; GANTMAN, Vladimir Bentzianovich; BYKOVA,  
Yuliya Nikolayevna; VORONETS, V.S., otv.red.; SMIRNOV, L.V.,  
red.izd-va; SHKLIAR, S.Ya., tekhn.red.

[Operator of tower cranes] Mashinist bashennyykh kranov.  
Moskva, Ugletekhnizdat, 1959. 183 p. (MIRA 13:1)  
(Cranes, derricks, etc.)

VORONETS, Vasiliy Stepanovich; VISHNEVETSKIY, I.M., inzh., ratsenzerent;  
GORYACHEVA, T.V., inzh., red.; SMIRNOVA, G.V., tekhn., red.

[Elevator electrician] Elektromekhanik po liftam. Moskva, Gos.  
nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1961. 153 p.  
(MIRA 14:11)

(Elevators—Electric equipment)

SIMONOV, P.S.; VORONETS, V.S., nauchnyy red.; SELIVANOV, V.A.,  
red.izd-va; GOL'BERG, T.M., tekhn.red.

[Safety instructions for operators of motor-driven, rubber-tired, and crawler cranes.] Pamiatka po tekhnike bezopasnosti  
dlja mashinista avtomobil'nykh pnevmokolesnykh i gusenichnykh  
kranov. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.  
materialam., 1960. 22 p. (MIRA 14:4)  
(Cranes, derricks, etc.)

VORONETS, Vasiliy Stepanovich, inzh.; MANAKIN, N.V., red.; CHUMNOVA, Z.I.,  
tekhn.red.

[Manual of a crane operator] Pamiatka kranovshchits. Izd.4.  
Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1959.  
104 p.

(MIRA 14:5)

(Cranes, derricks, etc.)

VORONETS, Vasiliy Stepanovich; VISHNEVETSKIY, I.M., red.; SMIRNOVA, R.N.,  
red.ind-va; RAKITIN, I.T., tekhn.red.

[Short handbook for the elevator operator and dispatcher] Kratkoе  
rukovodstvo dlja liftera-dispatchera. Moskva. Izd-vo M-va komm.  
khoz.ESFSSR. 1960. 58 p.  
(Elevators) (MIRA 14:4)

VORONETS, Vasiliy Stepanovich, inzhener; MANAKIN, N.V., redaktor; LVAROVA,  
A.F., tekhnicheskiy redaktor

[Crane operator's manual] Pamiatka kranovshchika. Izd. 2-oe. Moskva,  
Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 90 p.

(Cranes, derricks, etc.)

(MIRA 9:12)

IL'IN, Aleksey Ivanovich, kand.tekhn.nauk; VORONICHENOV, Mikhail Paras-  
monovich, inzh.; RODIONOV, I.I., red.; KHITROV, P.A., tekhn.red.

[Railroad transportation in the Chinese People's Republic]  
Zheleznodorozhnyi transport Kitaiskoi Narodnoi Respubliki.  
Moskva, Gos.transp.zhel-dor.izd-vo, 1959. 161 p. (MIRA 13:1)  
(China--Railroads)

VORONETS, V. S.

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